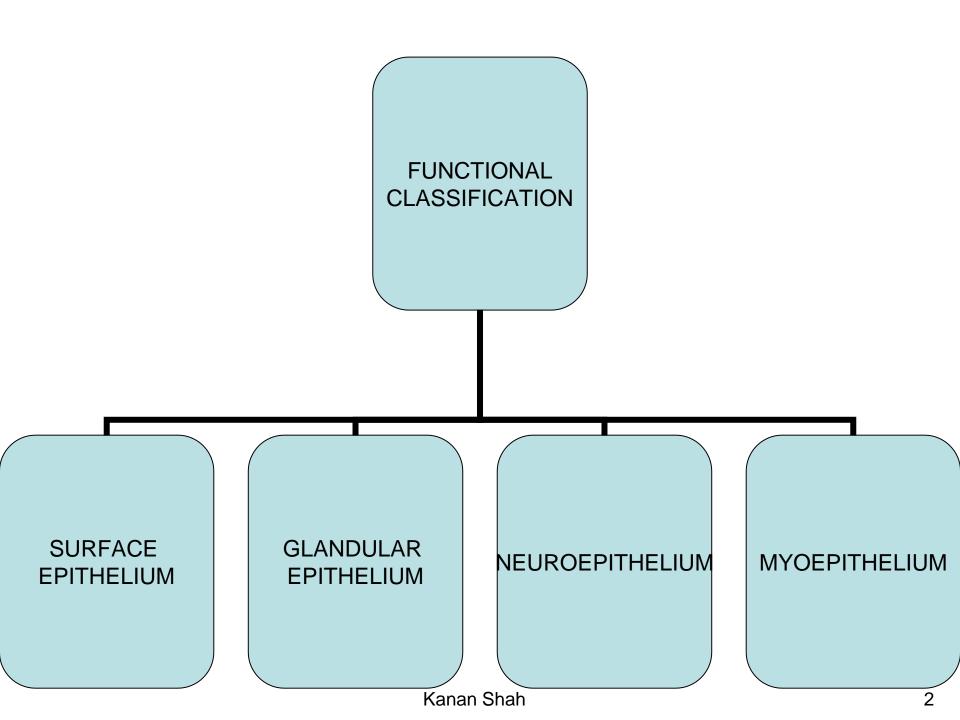
EPITHELIAL TISSUE

Outer surface of body and luminal surfaces of cavities within the body are lined by one or more layers of cells



SURFACE EPITHELIUM CHARACTERISTICS

- The cellular sheet is made of either single layer or many layers of cells.
- Cells are adherent to each other by junctional complexes.
- Intercellular substance is reduced to minimum.
- Deep surface of the epithelium rests on a basement membrane.
- Basement membrane is made up of
 - -basal lamina
 - -reticular lamina

No blood vessels nor lymphatics are found in the epithelium, nourishment is provided by diffusion.

May undergo morphological and functional changes

It is derived from all three germ layers.

FUNCTIONS

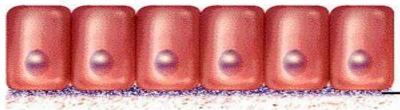
- PROTECTION
- ABSORPTION
- SECRETION
- LUBRICATION
- EXCRETION
- SENSATION
- REPRODUCTION

Epithelium

SIMPLE EPITHELIUM

STRATIFIED EPITHELIUM

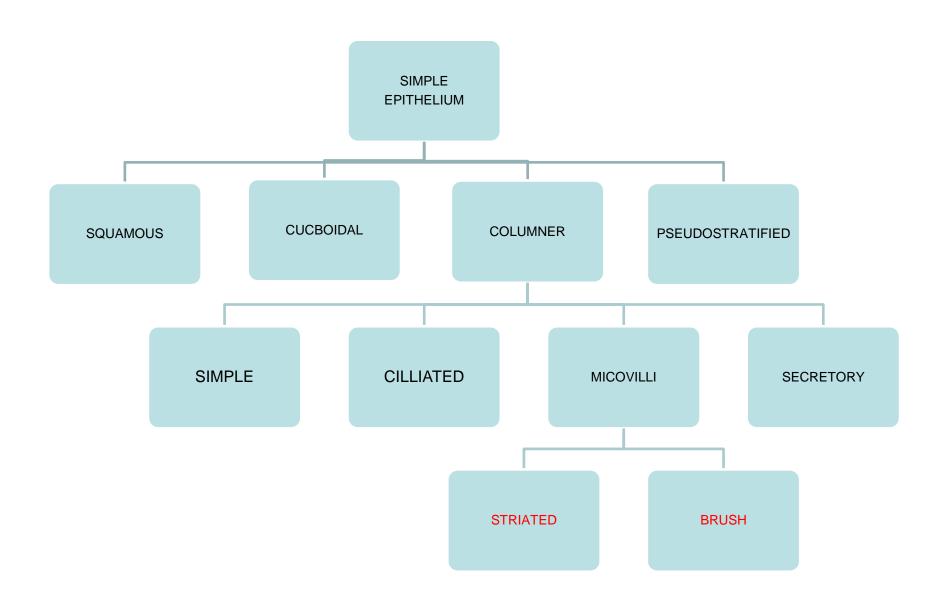
Simple epithelium

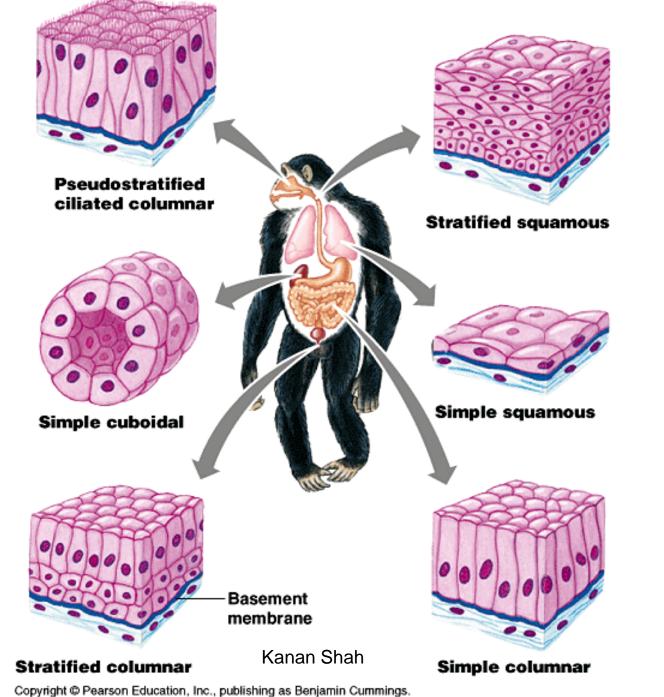


Basement membrane

Stratified epithelium







SIMPLE SQUAMOUS

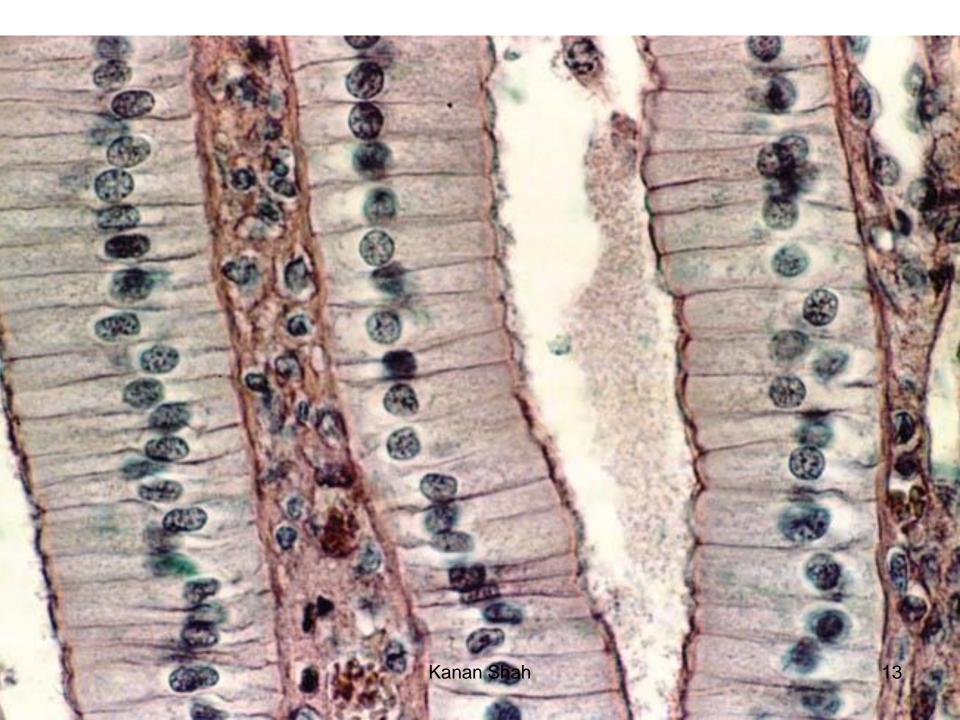


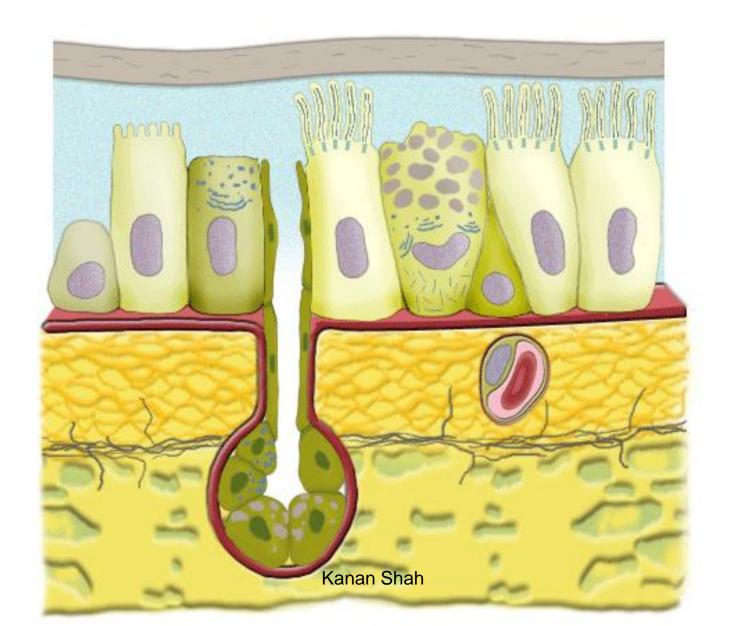
SIMPLE CUBOIDAL



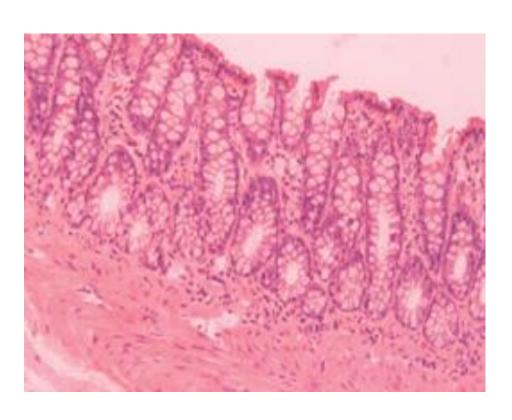
SIMPLE COLUMNER

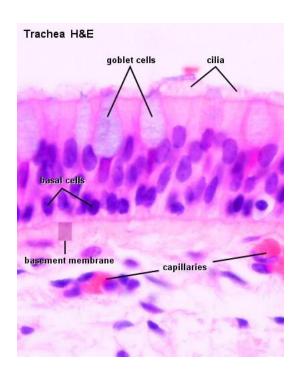






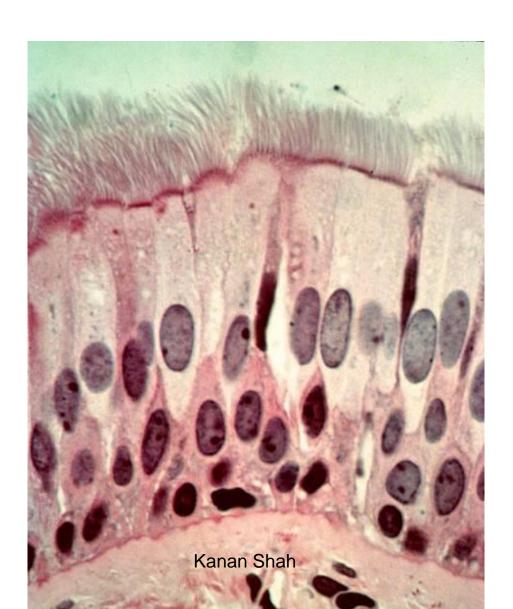
SECRETORY COLUMNER CELLS



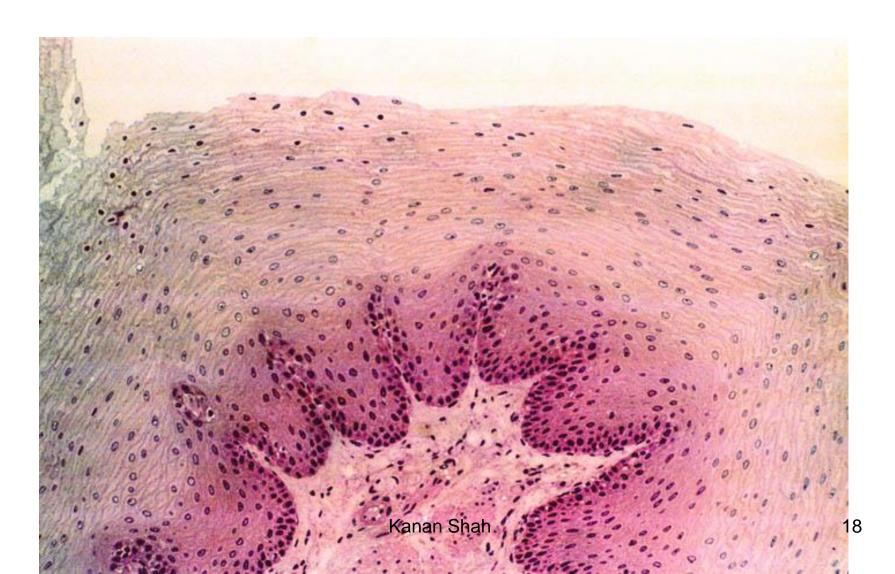


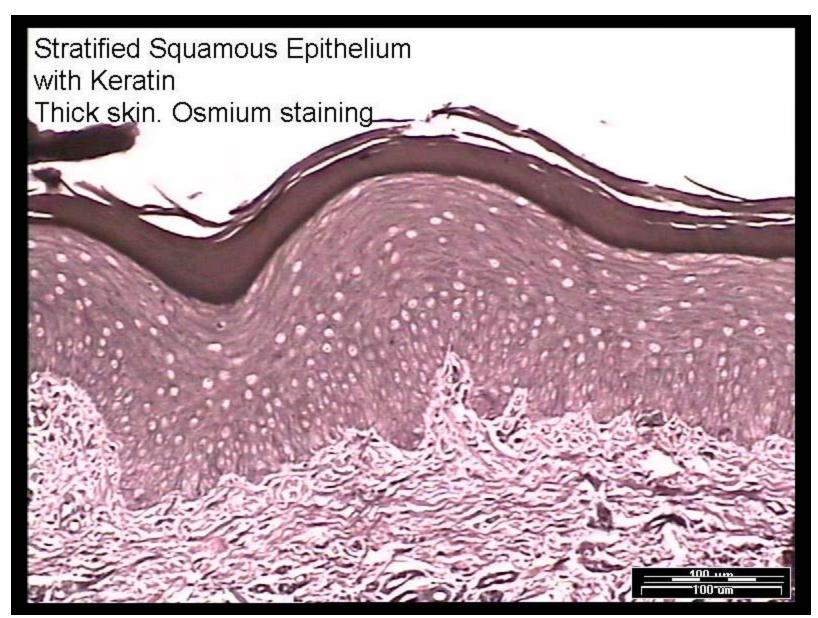


PSEUDOSTRATIFIED EPITHELIUM

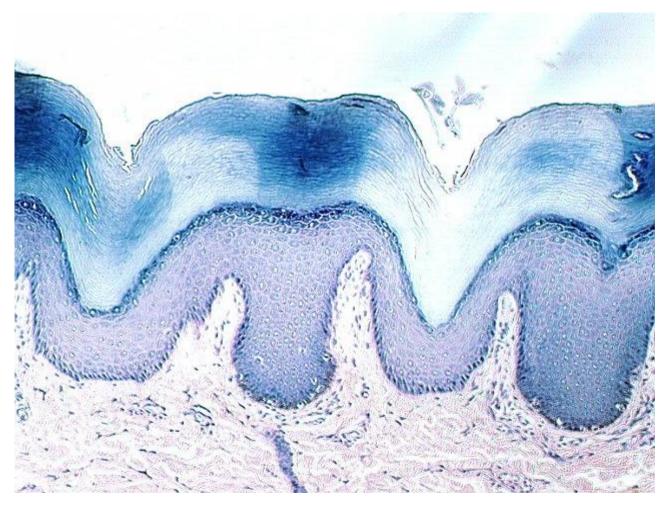


STRATIFIED SQUAMOUS NONKERATINISED

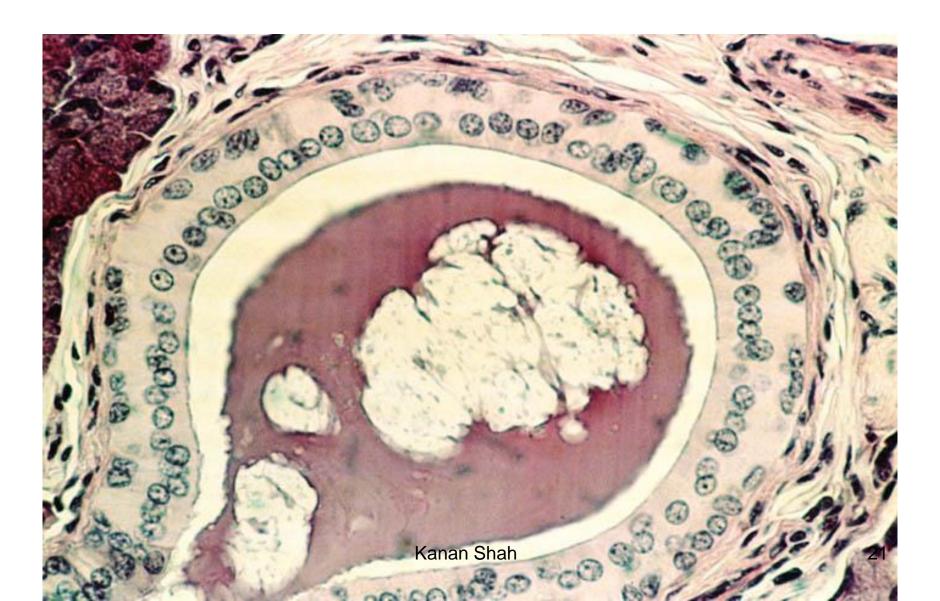




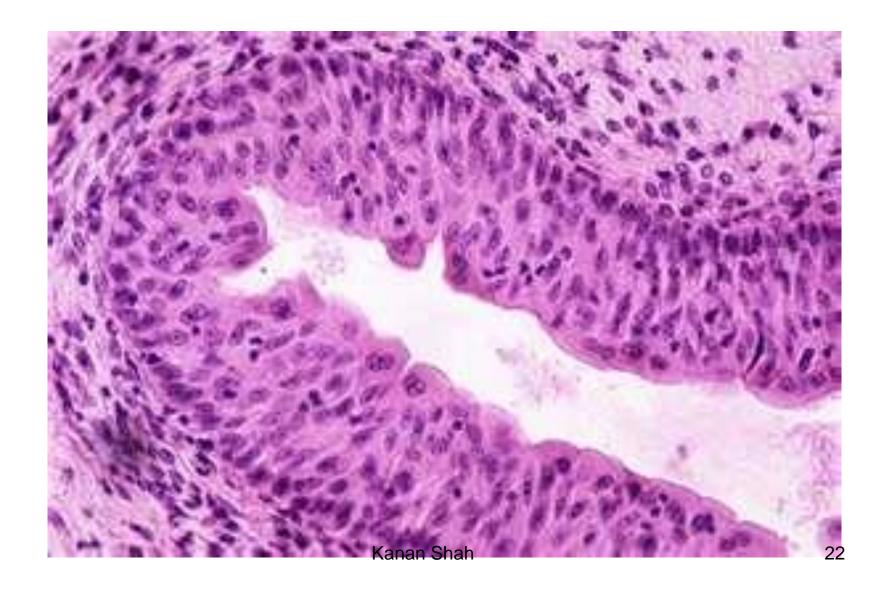
STRATIFIED SQUAMOUS KERATINISED

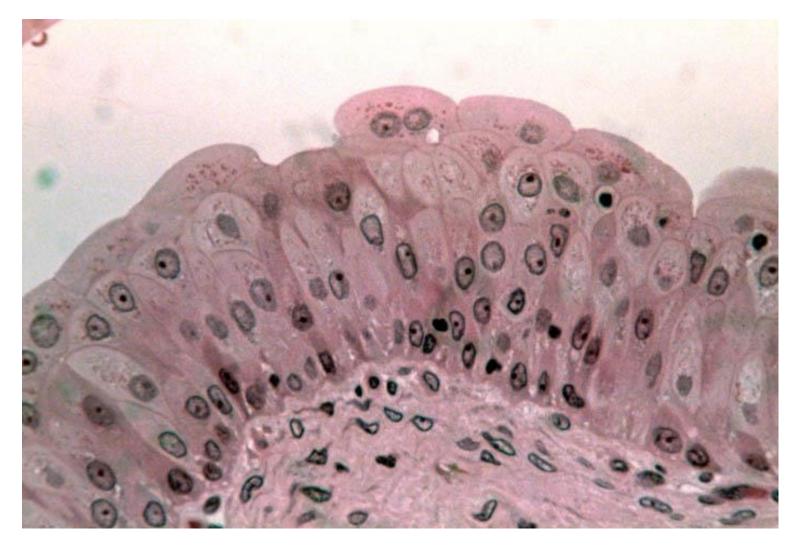


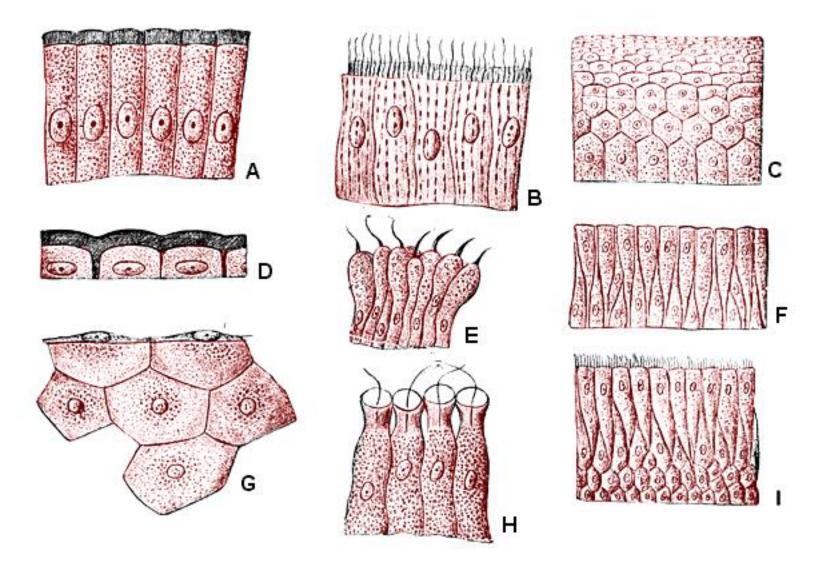
STRATIFIED CUBOIDAL



TRANSITIONAL EPITHELIUM







Aknowledgement

- Inderbir Singh's Textbook of Human Histology
- Textbook of Histology- Atlas and Practical Guide by JP Gunasegaran
- Difiore's Atlas of Histology
- Images from Google
- Histology Text & Atlas -Brijeshkumar